



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

## Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P0040266	THY001-VC	1		Net 30	M17-4-H1150-R4.000	17-4 SS H1150 Round Bar 4.000" MATERIAL: 17-4 PH CONDITION H1150 MATERIAL: 17-4 PH / S 17400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION: AMS 5643 OR ASTM A564				6	6/27/2018	6		S084786	Stock	6/27/2018	\$ 165.83 / ft	0		\$995.00	Thyssenkrupp Materials CA Ltd
		2			M6061T6B2.250X4.000	6061T6 Bar 2.250 X 4.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-2258 OR AMS-QQ-A-2258 OR AMS 4117/4128/4154/116 OR QQ-A-2008 OR AMS-QQ-A-2008 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		12		S084787	Stock	6/27/2018	\$ 28.05 / ft	0		\$336.57	Thyssenkrupp Materials CA Ltd
		3			M6061T6B2.500X04.500	6061-T6 Bar 2.50 X 4.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-2258 OR AMS-QQ-A-2258 OR AMS 4117/4128/4154/116 OR QQ-A-2008 OR AMS-QQ-A-2008 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				6		6		S084788	Stock	6/27/2018	\$ 35.83 / ft	0		\$215.00	Thyssenkrupp Materials CA Ltd
		4			M6061T6B2.500X01.250	6061-T6 Bar 2.50 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-2258 OR AMS-QQ-A-2258 OR AMS 4117/4128/4154/116 OR QQ-A-2008 OR AMS-QQ-A-2008 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		12		S084789	Stock	6/27/2018	\$ 9.74 / ft	0		\$116.87	Thyssenkrupp Materials CA Ltd
Total:										36		36								\$1,250.07	

**PURCHASE ORDER**  
**P0040266**

Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada  
Tel (613) 632-5200



**Supplier:**

THY001-VC  
Thyssenkrupp Materials CA Ltd  
O/A VPK Metal- c/o T27540  
PO Box 4275, Postal "A"  
Toronto  
ON  
M5W 5V8 Canada  
Phone: 905 669 9444  
Fax: 905 738 9033  
1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Ship To:**

**PO No:** P0040266  
**PO Date:** 6/20/18  
**Due Date:** 6/27/18  
**Purchase Order**  
**Revision:**  
**Revision Date:**  
**Ship-To Contact:** Phone:  
**Via:** Ground  
**Pymt Terms:** Net 30  
**Freight Terms:**  
**Special Comments:** quote no. 1203154691



Line	Item	Job	Part	Supplier	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	1/4		M17-4-H1150-R4.000		17-4 SS H1150 Round Bar 4.000" MATERIAL: 17-4 PH CONDITION H1150 MATERIAL: 17-4 PH / S 17400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION: AMS 5643 OR ASTM A564	Firmed	6/27/18	6 ft	6 ft ✓	0 ft	\$165.8333/ft	\$995.00
2	1/4		M6061T6B2.250X4.000		6061T6 Bar 2.250 X 4.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/27/18	12 ft	12 ft ✓	0 ft	\$28.0475/ft	\$336.57

Items

Plex 6/20/18 11:44 AM dart.lavoie.chantal

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system


A042 dart notification by supplier

A043 retention of quality documents

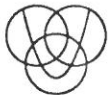
A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.



Line	Job	Part	Supplier	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
3		M6061TB2.500X04.500		6061-T6 Bar 2.50 X 4.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QA-A-225/8 OR AMS-QQ-A-17/4128/4115/4116 OR A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/27/18	6 ft	0 ft	6 ft	\$23.8434/ft	\$143.06
4		M6061TB2.500X01.250		6061-T6 Bar 2.50 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QA-A-225/8 OR AMS-QQ-A-17/4128/4115/4116 OR A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/27/18	12 ft	0 ft	12 ft	\$9.7391666/ft	\$116.87
5		M17-4-B1.250X2.000		17-4 SS Bar 1.250 X 2.00 : MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST BE ALONG LENGTH OF BAR MIN. YIELD TENSILE STRENGTH = 100 KSI MIN. ULTIMATE TENSILE STRENGTH = 150 KSI receive ft	Firmed	7/9/18	24 ft	0 ft	24 ft	\$46.20/ft	\$1,108.80
Grand Total: \$2,700.30											



thyssenkrupp

## DELIVERY NOTE

thyssenkrupp Materials NA, 4700 chemin du Bois-Franc, Saint-Laurent, QC H4S 1A7

(1) HR

thyssenkrupp Materials NA

5c

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON K6A 1K7



DATE: 06/27/2018  
DOC. NO: 2406052923\*  
BOL. NO: 2406052923  
ORDER NO: 1403692528  
YOUR P/O: PO040266  
CUSTOMER NO: 10058125  
Route: 303UA  
CONTACT: Lucy Truglio  
TEL: 10058125  
FAX: 10058125  
EMAIL: lucy.truglio@thyssenkrupp.co

MTR

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
TO SHIPPING.  
ATTN: CHANTAL/LINDA  
\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*  
\*\* REFERENCED ON IT \*\*

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAG
0010	CONDITION: H1150		
	GRAIN MUST BE ALONG LENGTH OF BAR		
	AMS 5643 OR ASTM A564		
	SSRD00764		
	T-17-4 Stainless Steel H1150 Double Heat Treat HRAP Round		
	UT		
	4.0000 " (+.0625-0) X 72 RBW Cutting - Standard +.125		
	Cut To Length		
	72.0300 " 1		
	Actual Chemistry/Act. Physical		
	Standard Packaging		
	CONDITION: H1150		
	GRAIN MUST BE ALONG LENGTH OF BAR		
	AMS 5643 OR ASTM A564		
	TAGNUM QTY		
	UOMVEND		
	VENDPO		
	HLOT		
	PC VALBRUNA 0000265556 259563		
	SAE AMS 5643 U;ROHS COMPLIANT;ASTM A 564/A 564M 2013		

261 lb

1 PC

Total Gross Weight

263.000 lb

All items, not declared as partial delivery, are final quantities.  
Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID

thyssenkrupp Materials NA  
22355 W 11 Mile Road  
Southfield, MI 48033



## DELIVERY NOTE

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON K6A 1K7

DATE: 06/27/2018  
DOC. NO: 2406052923\*  
BOL. NO: 2406052923  
ORDER NO: 1403692528  
YOUR P/O: PO040266  
CUSTOMER NO: 10058125  
Route: 303UA  
CONTACT: Lucy Truglio

EMAIL: lucy.truglio@thyssenkrupp.co  
m

## CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

\*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date ou la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.  
\*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance



776378.00-R01

Accredited  
ISO 9001 / 17025

P.O. Box 802404 ♦ Houston, TX 77280-2404 ♦ Telephone (713) 460-3655 ♦ Fax (713) 460-3695

To: ThyssenKrupp Materials NA  
Copper & Brass Sales Division  
P.O. Box 5116  
Southfield, MI 48086-5116Report Date: 3/10/2017  
Report No: 776378.00  
Rev: A  
Cust Acct: THY086

Ordered By: Karl Buchala PO: 5520120553-37A

Material: 17-4 H1150 Double Heat Treat HRAP 4"OD X 6"Long Test Piece

Heat/ID: 259563 Tag: 1007207051

Job Info:

Tensile Test Results							No/Location
Size	Area	Ult. Load	Yield	Tensile	Elong	R. of A.	Fracture
(in.)	(in <sup>2</sup> )	(lbs.)	(psi)	(psi)	(%)	(%)	
.502		114,000	138,800	22.4	62.4		1

Unless otherwise stated, yield stress is 0.2% offset, gauge length is 2 in. for 1/2 in. bars or 1 in. for 1/4 in. bars.

  
Stephanie Valencia  
Documentation SpecialistDocument  
Reviewed By:

Our reports are for the exclusive use of our customer and our name may be used only with prior written approval. Our reports apply only to the sample tested or inspected and do not necessarily represent the quality of other apparently similar or identical materials. All test specimens and testing conforms to ASTM A-370 requirements unless otherwise stated. This test report shall not be reproduced, except in full, without the written approval of Accu-Test Labs LLP.


**PURCHASE MATERIAL: S17-40 PH / S17400 / TYPE 630 SS ROUND BAR**  
**GRAIN MUST BE ALONG LENGTH OF BAR**  
**MINIMUM YIELD STRENGTH PER TABLE**  
**MINIMUM ULTIMATE STRENGTH PER TABLE**

SPECIFICATION: AMS 5634R ASTM A564

PART NUMBER:	COND	O.D.
M17-4- HHHHH- COND	R X.XXX O.D.	

WHERE: HHHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)  
X.XXX = DIAMETER (IN INCHES)

**MATERIAL CONDITION TABLE:**

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN UTMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

**NOTES:** MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS. MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE. CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED.

**EXAMPLES:**

PART	PART NUMBER
4.000" DIAMETER BAR MIN UTS = 750 KSI	M17-4-R4.000
2.500" DIAMETER BAR H900 CONDITION	M17-4-1900-R2.500
3.250" DIAMETER BAR H1025 CONDITION	M17-4-11025-R3.250
0.750" DIAMETER BAR A CONDITION	M17-4-COINDA-R0.750

DECLASSIFIED  
2017-10-31  
ECLW7-728  
W

APPROVED

C	ADD MATERIAL CONDITION (ICR17-107)	NO	17.09.14
B	REFORMAT DWS, ST140027476, 636 ADDED TO PURCHASE MATERIAL (2N DS-1), ADD AS64 SPEC (CR-1), REF PAR 60-0020A	VS	10.05.20
A	NEW ISSUE	CP	05.03.16
REV.	DESCRIPTION	BY	DATE
DESIGN	DART AEROSPACE LTD		
DRAWING NO.	HAMPSHIRE, ONTARIO, CANADA		
CHECKED	NO	REV. C	
MFG. APPR.	CP	SHEET 1 OF 6	
APPROVED	RA	SCALE	
DE APPR.	WM	NTS	
DATE	CP	17-4 SS ROUND BAR	
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>MS</u>	SIGNED OFF BY: _____
DATE: <u>18/06/21</u>	DATE: _____

Testers located in the Quality Office

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.	RECORD RESULTS BELOW			
HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL PER M-DRAWING	Y	AMS 5643
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT REF # TO LINK CERT	Y	MT: 259563
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT M# ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

MATERIAL: <u>M17-4-11150-24.00</u>	DATE: <u>18/06/21</u>
MATERIAL CERT REC'D: <u>MS</u>	QUANTITY RECEIVED: <u>65+</u>
QUANTITY INSPECTED: <u>64</u>	QUANTITY REJECTED: <u>0</u>
THICKNESS ORDERED: <u>4.050"</u>	THICKNESS RECEIVED: <u>4.000"</u>
SHEET SIZE ORDERED: <u>—</u>	SHEET SIZE RECEIVED: <u>—</u>
PO / BATCH NO.: <u>P0040266/5084786</u>	

MATERIAL RECEIPT INSPECTION FORM



All items, not declared as partial delivery, are final quantities.  
Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID

Total Gross Weight 131.000 lb

ROHS COMPLIANT;ASTM B 221|2014  
2001379154 1 PC SERVICE C 5400398986 20180733  
TAGNUM QTY UOMVEND VENDPO HLOT PCS --- COM 1

AMS-QQ-A-225/8, AMS-4160, ASTM B211

Standard Packaging

Nominal Chemistry/Act Physical

2.25000 (+-.024) X 4.0000 (+-.034) X 144 Mill Length

6061 T6511 Aluminum Extruded Rectangular

ALRECC00025

AMS-QQ-A-225/8, AMS-4160, ASTM B211

PC

129 lb

1 1008750487

ITEM DESCRIPTION NET QTY1 / QTY2 PACKAG

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
TO SHIPPING.  
ATTN: CHANTAL/LINDA  
\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*  
\*\* REFERENCED ON IT \*\*

MTR

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON K6A 1K7



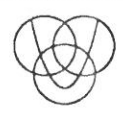
DATE: 06/27/2018  
DOC. NO: 2406057366\*  
BOL. NO: 2406057366  
ORDER NO: 1403692528  
YOUR P/O: PO040266  
CUSTOMER NO: 10058125  
Route: 303UA  
CONTACT: Lucy Truglio  
TEL:  
FAX:  
EMAIL: lucy.truglio@thyssenkrupp.co

DELIVERY NOTE

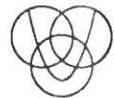
thyssenkrupp Materials NA, 4700 chemin du Bois-Franc, Saint-Laurent, QC H4S 1A7

① A1

thyssenkrupp Materials NA



thyssenkrupp



thyssenkrupp

thyssenkrupp Materials NA, 4700 chemin du Bois-Franc, Saint-Laurent, QC H4S 1A7

## DELIVERY NOTE

thyssenkrupp Materials NA

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON K6A 1K7

DATE: 06/27/2018  
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## CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

\*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date ou la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.  
\*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance

thyssenkrupp Materials NA  
22355 W 11 Mile Road  
Southfield, MI 48033



Can Do.

Service Center Metals

5850 Quality Way  
Prince George, VA 23875

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



BILL TO		MANIFEST NUMBER		DIE NUMBER		DATE OF SHIPMENT		OUR ORDER NUMBER		ITEM	
Thyssenkrupp Materials NA		366568		MRB1807		5/8/2018		949765		10	
SHIP TO		CUSTOMER PO		ALLOY / TEMPER		SALESPERSON		CERTIFICATION			
Thyssenkrupp Materials NA-Concord, ON		5400398986		6061-T6511		D. Schroeder (Canada)		ASTM-B221-14 StencilCont			
Quantity Certified		CUSTOMER PART NUMBER		DESCRIPTION		SPECIFICATION					
1,150 lbs		ALREC00025		MQRB 2.250x4.000		RoHS 2011/65/EU Compliant					

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

This product is RoHS-2, REACH, and DFARS compliant.

SCM is ISO 9001-2015 certified

## Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201807337	4/24/18	min 51.50 max 51.50	min 48.10 max 48.10	min 14.70 max 14.70
1	201808301	5/7/18	min 49.40 max 49.40	min 45.40 max 45.40	min 18.00 max 18.00

## Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Each	Total	Others	Melt Source:
001J180417B	201807337	6061	0.74	0.36	0.31	0.10	0.90	0.11	0.07	0.03	97.38	0.05	0.15		United States of America
001M180428A	201808301	6061	0.73	0.38	0.31	0.11	0.88	0.11	0.06	0.03	97.38	0.05	0.15		United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 5/8/2018

Rev 3/14/2018

From: TK Materials CA, Ltd.  
Cust. DART AEROSPACE LTD  
CstAr

Del.: 2406057366

CstAr P0040266

Date 06/26/2018

Wgt.: 129 LB

Handwritten signature

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 6061 T6/T651/T6510/T62 ALUMINIUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS-4224/28/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B TTTT X WWW.WWW

THICK WIDTH

WHERE "TTTT" = THICKNESS IN INCHES  
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

REV	A	REMOVE QQ-A-250/11 OPTION REFORMAT NOTES, ADD ASTM B211/B221 (ZND-07-1)	CP	09.07.13
DESIGN	DS	DESCRIPTION	BY	DATE
DRAWN	AS	DART AEROSPACE LTD HAWESBURY ONTARIO CANADA		
CHECKED	AS	DRAWING NO		
MFG. APPR.		M6061T6B		
APPROVED		TITLE		
DE APPR.		6061-T6 BAR		
DATE	09.07.13	SCALE		
		NTS		
		SHEET 1 OF 1		
		REV B		
		COPYRIGHT © 2001 BY DART AEROSPACE LTD		
		ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.		

RELEASED  
2009-05-03  
MAD

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AS</u>	DAS	9-89
DATE: <u>18/06/27</u>	SIGNED OFF BY: _____	
DATE: _____		_____

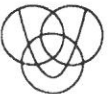
CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	AMS-4160
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	HT: 201807337
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT # ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

MATERIAL: <u>M60617682.25024000</u>	DATE: <u>18/06/27</u>
MATERIAL CERT REC'D: <u>12/11</u>	QUANTITY INSPECTED: <u>12/11</u>
QUANTITY RECEIVED: <u>12/11</u>	QUANTITY REJECTED: <u>0</u>
THICKNESS ORDERED: <u>2.25"</u>	THICKNESS RECEIVED: <u>2.25"</u>
SHEET SIZE ORDERED: <u>—</u>	SHEET SIZE RECEIVED: <u>—</u>
PO / BATCH NO.: <u>00402266/5084787</u>	

# MATERIAL RECEIPT INSPECTION FORM



# DELIVERY NOTE

thyssenkrupp Materials NA, 4700 chemin du Bois-Franc, Saint-Laurent, QC H4S 1A7

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON K6A 1K7

DATE: 06/27/2018  
DOC. NO: 2406053413  
BOL. NO: 2406053413  
ORDER NO: 1403692528  
YOUR P/O: PO040266  
CUSTOMER NO: 10058125  
Route: 303-A  
CONTACT: Lucy Truglio  
TEL:  
FAX:  
EMAIL: lucy.truglio@thyssenkrupp.co



MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*

\*\* REFERENCED ON IT \*\*

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM DESCRIPTION

AMS-00-A-225/8, AMS-4160, ASTM B211 OR ASTM

0010

B221

ALREC00215

6061 T6511

Aluminum Extruded Rectangular

2.50000 (+-.024) X 4.5000 (+-.034) X 72 RBW Cutting - Standard +.125

Cut To Length

72.0000 " 1

Nominal Chemistry/Act Physical

Standard Packaging

AMS-00-A-225/8, AMS-4160, ASTM B211 OR ASTM

B221

TAGNUM QTY

UOMVEND

VENDPO

HLDT

PCS

COM

ROHS COMPLIANT;ASTM B 221|2014

1013991879 1

PC SERVICE C

5400390588

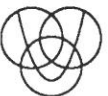
201802890

1

Total Gross Weight

84.000 lb

All items, not declared as partial delivery, are final quantities. Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID



DELIVERY NOTE

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON K6A 1K7

DATE: 06/27/2018  
DOC. NO: 2406053413\*  
BOL. NO: 2406053413  
ORDER NO: 1403692528  
YOUR P/O: P0040266  
CUSTOMER NO: 10058125  
Route: 303-A  
CONTACT: Lucy Truglio  
TEL:  
FAX:  
EMAIL: lucy.truglio@thyssenkrupp.co  
m

CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

\*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date ou la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.  
\*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance



Service Center Metals

5850 Quality Way  
Prince George, VA 23875

Can Do.

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



OUR ORDER NUMBER	ITEM
945044	1

BILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT	CERTIFICATION
ThyssenKrupp Materials NA	361468	MRB0484	3/19/2018	ASTM-B221-14 StencilCont
SHIP TO	CUSTOMER PO	ALLOY/TEMPER	SALESPERSON	SPECIFICATION
ThyssenKrupp Materials NA-St Laurent, QC	5400390588	6061-T6511	D. Schroeder (Canada)	AMS-QQA-200/8 Rev-A obsolete
Quantity Certified	CUSTOMER PART NUMBER	DESCRIPTION		
1,121 lbs	ALREC00215	MQRB 2.500x4.500		RoHS 2011/65/EU Compliant

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

This product is RoHS-2, REACH, and DFARS compliant.

SCM is ISO 9001-2015 certified

## Mechanical Properties

Tests Lot No.

1 201802890

Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
2/18/18	min 50.20 max 50.20	min 47.00 max 47.00	min 17.60 max 17.60

## Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Others		Melt Source:
												Each	Total	
02131802	201802890	6061	0.75	0.35	0.31	0.10	0.90	0.09	0.12	0.03	97.35	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 3/19/2018

Rev 3/14/2018

From: TK Materials CA, Ltd.

Cust. DART AEROSPACE LTD

CstAr

Wgt.: 80 LB

Date 06/26/2018

CstAr P0040266

Del.: 2406053413



# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 6061 T6/T651/T6510/T6511/T62 ALUMINIUM BAR

SPECIFICATION: QQ-A-225/B OR AMS-QQ-A-225/B (OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | TTTT | X | WWW.WWW |

THICK | WIDTH

WHERE "TTTT" = THICKNESS IN INCHES  
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

B	REMOVE QQ-A-250/11 OPTION REFORMAT NOTES, ADD ASTM B211/B221 (2ND D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.09
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED			
MFG APPR			
APPROVED			
DE APPR			
DATE	09.07.13		

DART AEROSPACE LTD	
DRAWING NO	M6061T6B
TITLE	6061-T6 BAR
REV. B	SHEET 1 OF 1
SCALE	NTS

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ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.

RELEASED  
2009-08-03  
MSP

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AS</u>	SIGNED OFF BY: _____
DATE: <u>18/06/17</u>	DATE: _____

Testers located in the Quality Office

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.	RECORD RESULTS BELOW	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL						
SIZE OF TEST SAMPLE						
HARDNESS / DUROMETER READING						

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	AMS-00-A-2378
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	HT: 2018023810
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

MATERIAL CERT REC'D: <u>1/2</u>	QUANTITY RECEIVED: <u>65t</u>	QUANTITY INSPECTED: <u>65t</u>	QUANTITY REJECTED: <u>0</u>
DATE: <u>18/06/17</u>	MATERIAL: <u>M60617682.500 X 04500</u>	PO / BATCH NO.: <u>804026/5084788</u>	
THICKNESS ORDERED: <u>2.50"</u>	THICKNESS RECEIVED: <u>2.50"</u>	SHEET SIZE ORDERED: <u>—</u>	SHEET SIZE RECEIVED: <u>—</u>

MATERIAL RECEIPT INSPECTION FORM



# DELIVERY NOTE

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON K6A 1K7

DATE: 06/27/2018  
DOC. NO: 2406053584\*  
BOL. NO: 2406053584  
ORDER NO: 1403692528  
YOUR P/O: P0040266  
CUSTOMER NO: 10058125  
Route: 303-A  
CONTACT: Lucy Truglio  
TEL: 303-A  
FAX: 303-A  
EMAIL: lucy.truglio@thyssenkrupp.co



MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
TO SHIPPING.  
ATTN: CHANTAL/LINDA  
\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*  
\*\* REFERENCED ON IT \*\*

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAG
0010	AMS-QQ-A-225/8/AMS-4160, ASTM B211 OR ASTM B221	1 PC	1008751585

ALRECC0316  
6061 T6511 Aluminum Extruded Rectangular  
1.25000 (+-.012) X 2.5000 (+-.024) X 144 Mill Length

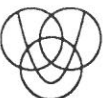
AMS-QQ-A-225/8/AMS-4160, ASTM B211 OR ASTM B221  
Standard Packaging  
Nominal Chemistry/Act Physical

TAGNUM	QTY	UOMVEND	VENDPO	HLOT	PCS	COM
2001379331	1	PC	SERVICE C	5400400615	201807982	1

Total Gross Weight

52.000 lb

All items, not declared as partial delivery, are final quantities.  
Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID



## DELIVERY NOTE

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON K6A 1K7

DATE: 06/27/2018  
DOC. NO: 2406053584\*  
BOL. NO: 2406053584  
ORDER NO: 1403692528  
YOUR P/O: PO040266  
CUSTOMER NO: 10058125  
Route: 303-A  
CONTACT: Lucy Truglio  
TEL:  
FAX:  
EMAIL: lucy.truglio@thyssenkrupp.co  
m

## CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

\*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date ou la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.  
\*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance



Can Do.

# Service Center Metals

5850 Quality Way  
Prince George, VA 23875

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



OUR ORDER NUMBER	ITEM
950583	4

BILL TO	MANIFEST NUMBER	DATE OF SHIPMENT	CERTIFICATION
ThyssenKrupp Materials NA	366563	5/8/2018	ASTM-B221-14 StencilCont
SHIP TO	CUSTOMER PO	SALESPERSON	SPECIFICATION
ThyssenKrupp Materials NA-St Laurent, QC	5400400615	D. Schroeder (Canada)	RoHS 2011/65/EU Compliant
Quantity Certified	3,738 lbs	84 pcs	
	CUSTOMER PART NUMBER	DESCRIPTION	
	ALRECO0316	MQRB 1.250 x 2.500	

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

This product is RoHS-2, REACH, and DfARS compliant.

SCM is ISO 9001-2015 certified

### Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
3	201807982	5/6/18	min 48.30 max 50.10	min 43.90 max 46.20	min 14.80 max 16.90

### Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Others		Melt Source:
												Each	Total	
001E180323A	201807982	6061	0.75	0.37	0.32	0.11	0.90	0.11	0.06	0.03	97.35	0.05	0.15	United States of America
001E180323Y	201807982	6061	0.76	0.37	0.33	0.12	0.97	0.10	0.05	0.03	97.27	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 5/8/2018

Rev 3/14/2018

From: TK Materials CA, Ltd.  
Cust: DART AEROSPACE LTD  
CstAR

Del.: 2406053584

Cstor P0040266

Date 06/26/2018

Wgt.: 44 LB

*[Signature]*

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061 T6/T651/T6510/T651062 ALUMINUM BAR

SPECIFICATION:  
 QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116)  
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
 OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B T TTT X WW WWW  
 THICK WIDTH

WHERE "T TTT" = THICKNESS IN INCHES  
 "WW WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1 000X12.000

**RELEASED**  
 2009-05-03  
*WV*

REV	DESCRIPTION	DATE	BY
A	REMOVE QQ-A-250/1 (OPTION REFORMAT NOTES, ADD ASTM B211B221 (2N D7-1))	09.07.13	DS
B	NEW ISSUE	01.06.08	DS
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	AS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	AS	DRAWING NO M6061T6B	
MFG. APPR.	WV	TITLE 6061-T6 BAR	
APPROVED	WV	SHEET 1 OF 1	
DE APPR.	WV	SCALE NTS	
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M60617682500x4.250	DATE: 18/06/27
MATERIAL CERT REC'D: Yes	QUANTITY RECEIVED: 12H
	QUANTITY INSPECTED: 12H
	QUANTITY REJECTED: 0
THICKNESS ORDERED: 2.500"	THICKNESS RECEIVED: 2.500"
SHEET SIZE ORDERED: —	SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	Y (Y)	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	Y (Y)	
CORRECT MATERIAL PER M-DRAWING	Y (Y)	AMS-QQ-A-225/8
CORRECT THICKNESS	Y (Y)	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	Y (Y)	MT: 201807482
CORRECT MATERIAL IDENTIFICATION	Y (Y)	
CORRECT M# ON THE MATERIAL	Y (Y)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUREMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: DAS	SIGNED OFF BY:
DATE: 18/06/27	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in